

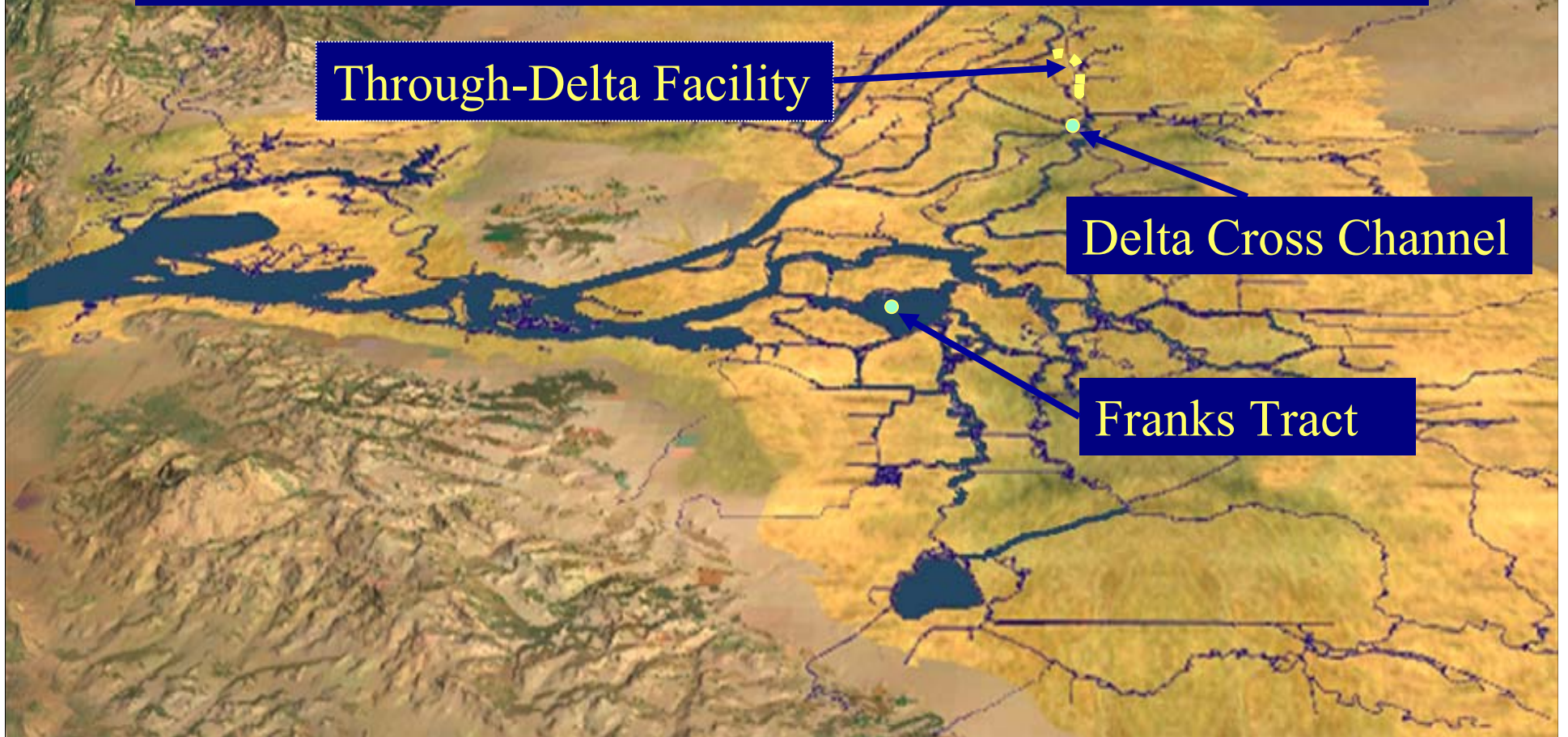
# Briefing on Franks Tract, Delta Cross Channel Reoperation, and Through-Delta Facility

April 13, 2005

Through-Delta Facility

Delta Cross Channel

Franks Tract

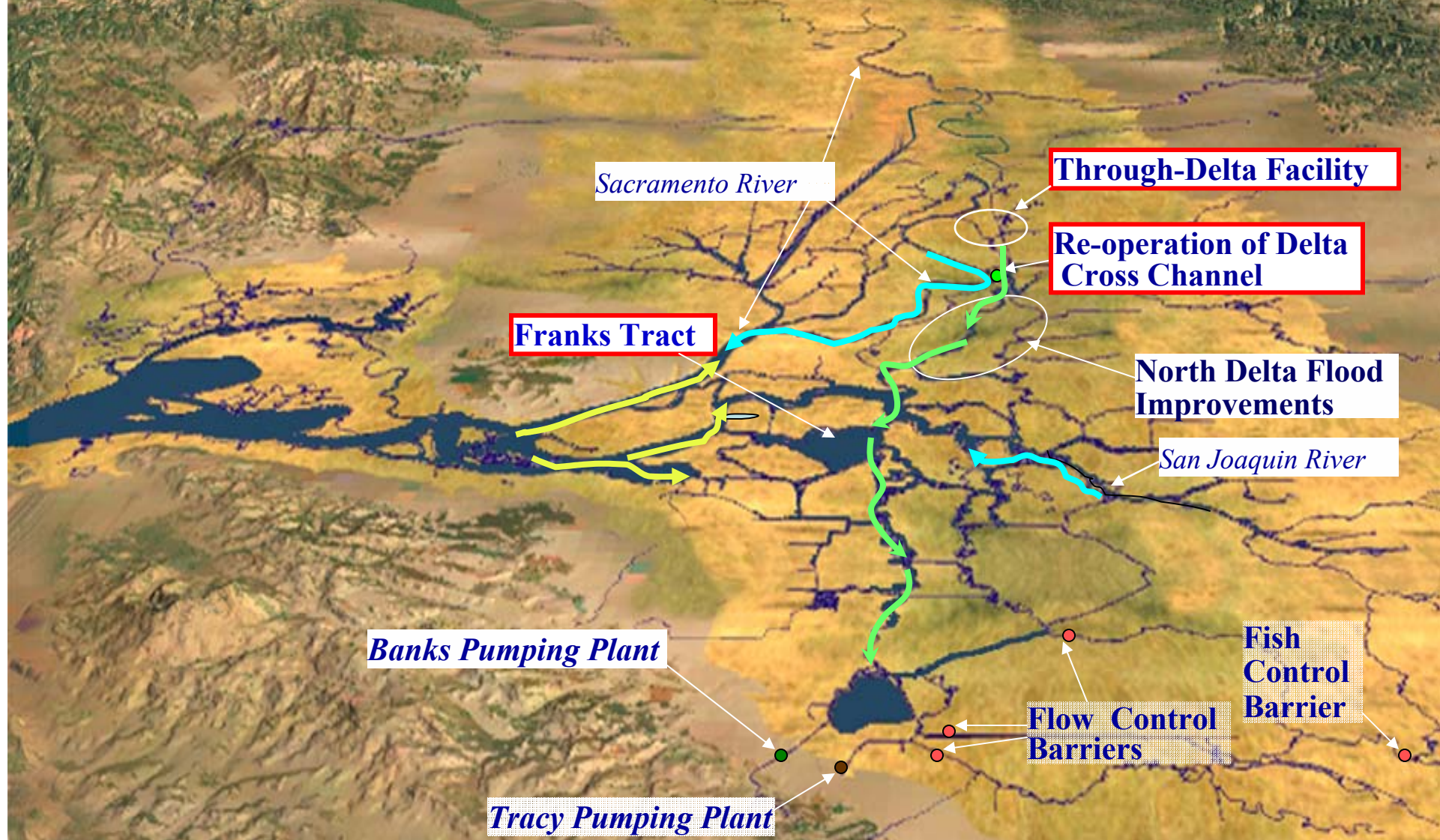


# OBJECTIVES

- **Franks Tract**  
Improve water quality, ecosystem, and recreational opportunities
- **Delta Cross Channel Re-operation**  
Improve water quality and fisheries protection
- **Through-Delta Facility**  
Improve water quality and fisheries protection



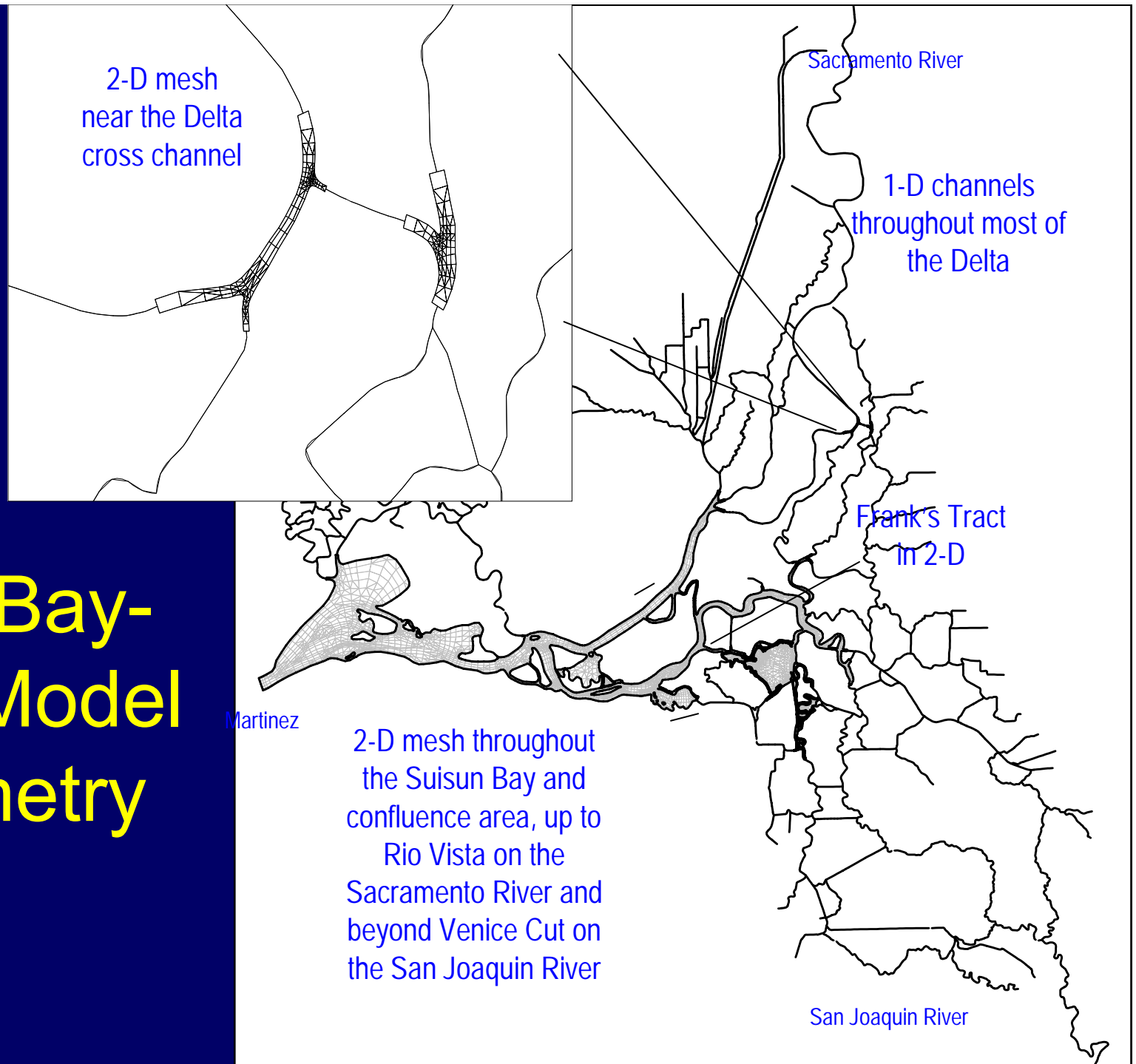
# Conveyance Hydrodynamics Through-Delta Strategy



# Lessons Learned to Date

- Water Quality
  - DCC/TDF shows up to ~15 % salinity reduction
  - Franks Tract shows up to ~30 % salinity reduction
- Fisheries
  - DCC entrains fish when open
  - Closing the DCC redistributes water (and fish) to other channels
  - Hydrodynamics at slough entrances affect fish entrainment
- Things We Need To Do or Know Better
  - Develop better numerical modeling of the Delta system
  - Regional flow, water quality and fish movements

# RMA Bay-Delta Model Geometry





# Modeling Studies

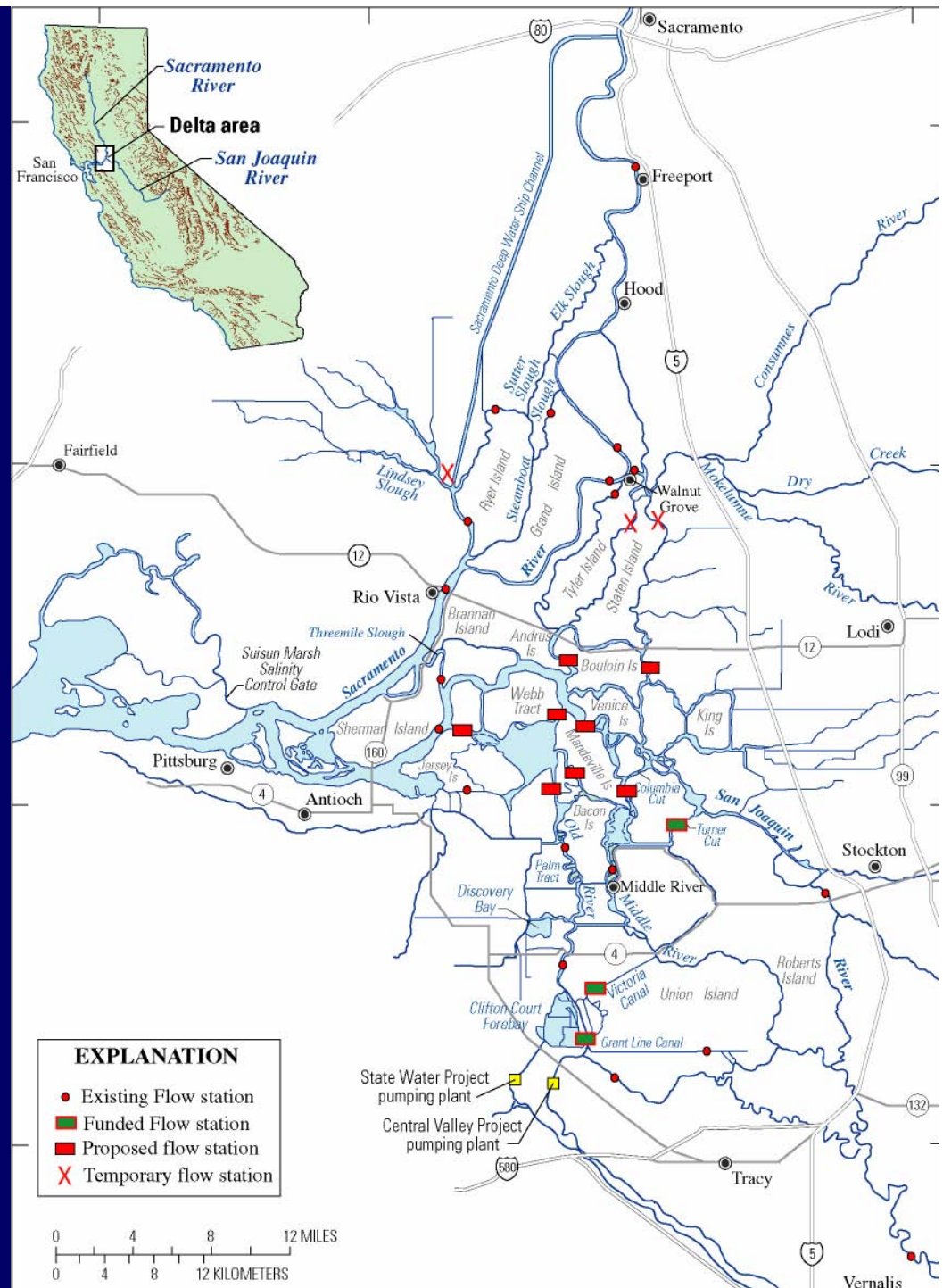
- **Modeling Scenarios**
  - Franks Tract alone
  - DCC reoperations alone
  - TDF with & without DCC
  - Combinations of the above
- **Expected Results**
  - Improved salinity response
  - Salinity improvements can be compared

# Regional Field Study

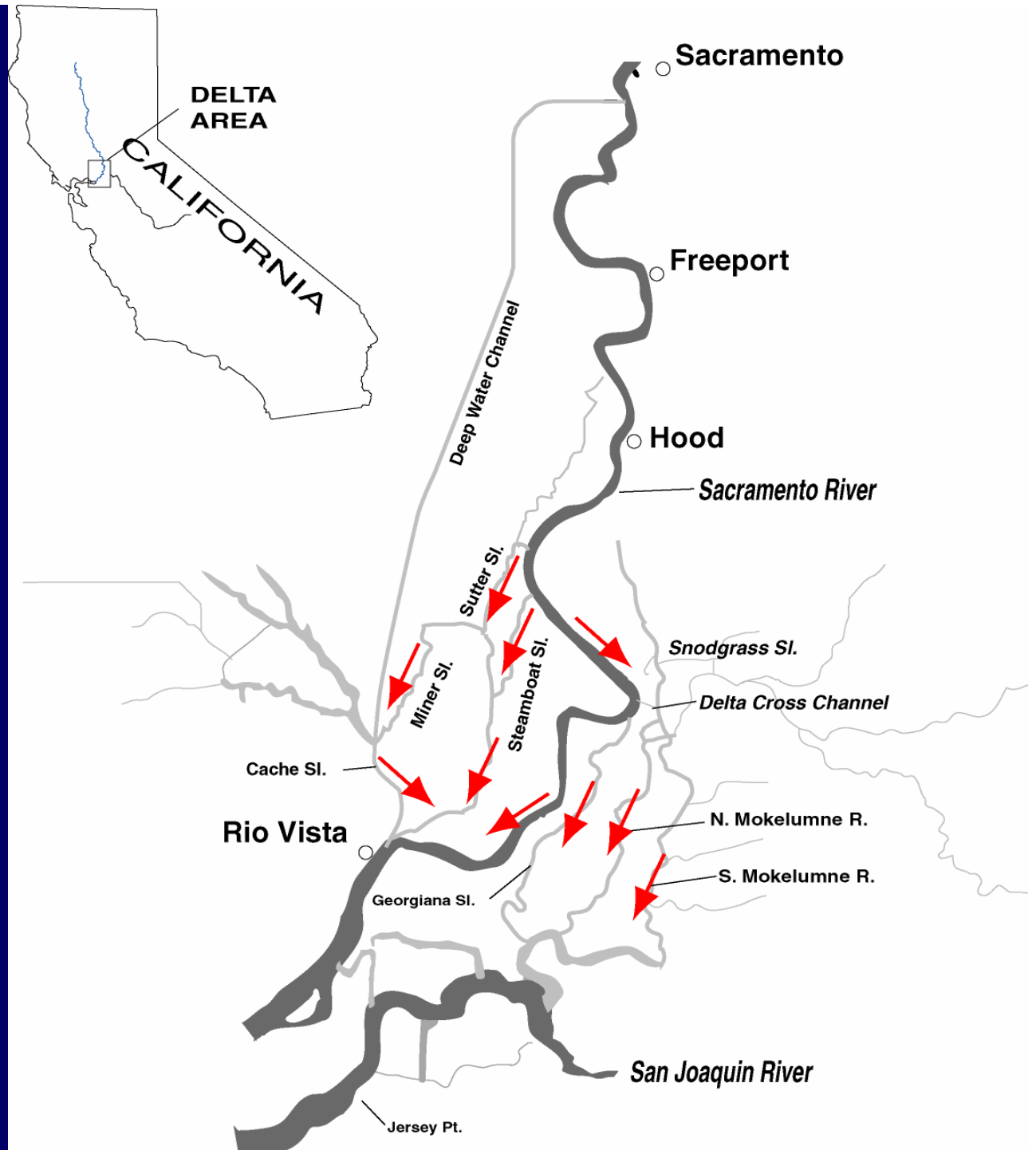
## Water Quality Monitoring Component 2005-7

Flow and salinity stations being installed.

Flow and water quality will be evaluated under various DCC gate operations.



# Channels Affected by DCC & TDF Operations

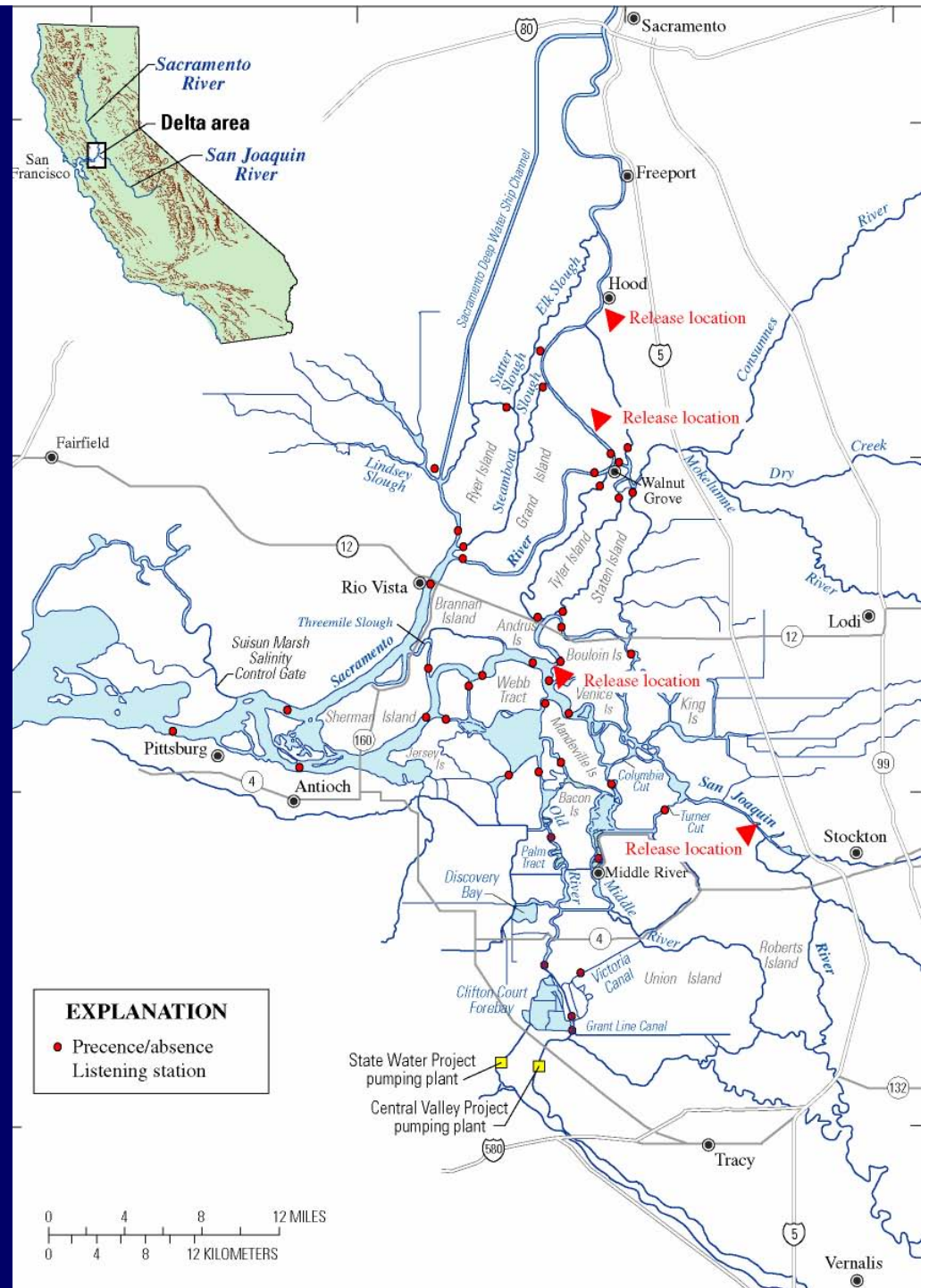




# Regional Field Study

## Fisheries Study Component -2006

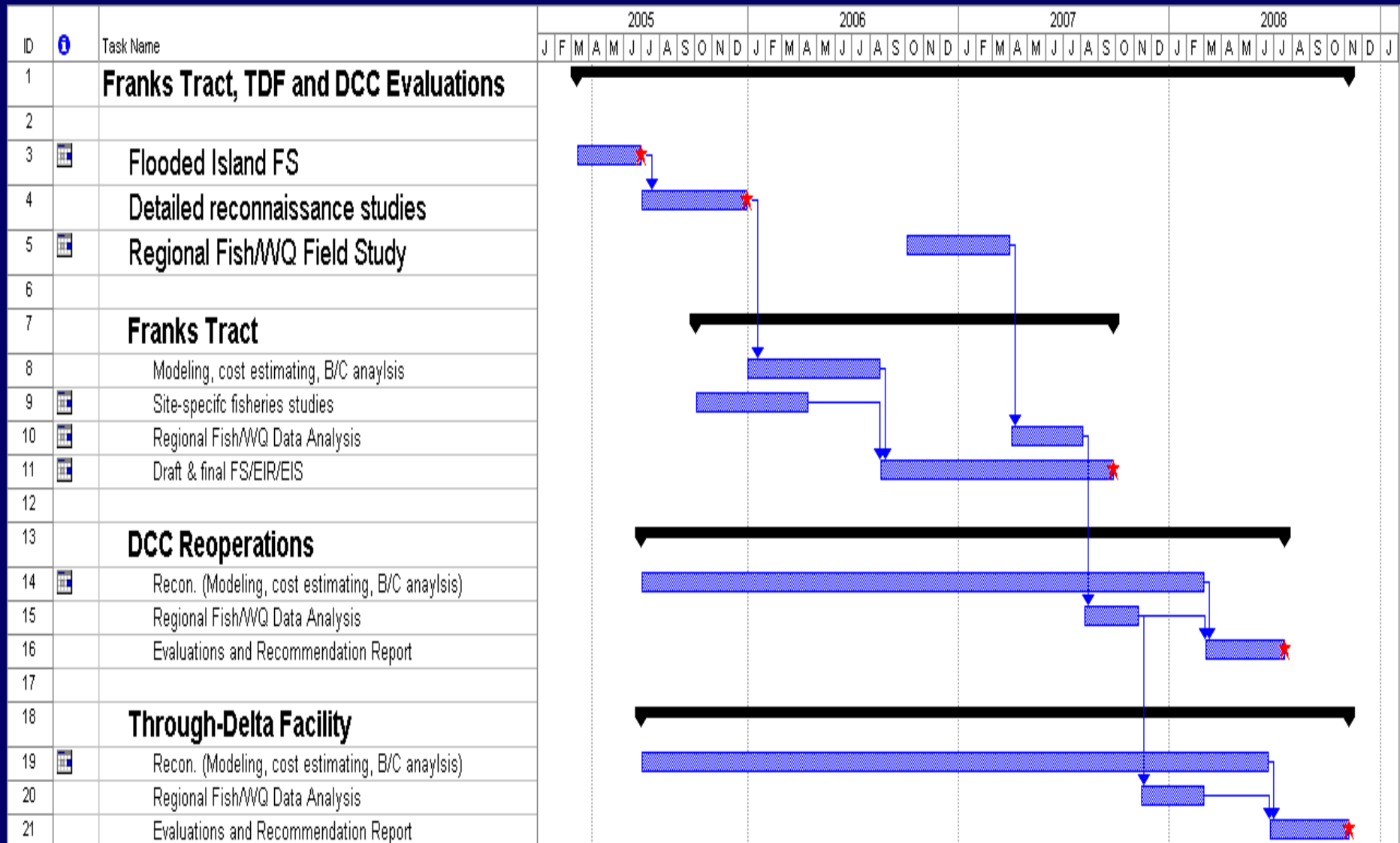
Fish releases and listening stations throughout the north and central Delta will evaluate fish movements and survival.



# Budget and Funding

- **Franks Tract (Water Quality Program)**
  - Planning budget, \$11.5 M
    - Proposition 50 and SWP Funds
    - Federal Funds, yet to be determined
  - Construction budget, unknown
- **DCC and TDF (Conveyance Program)**
  - Planning budget, \$17.0 M
    - Unmet need, \$10.2 M
    - SWP Funds and Proposition 13
    - Federal Funds, yet to be determined

# Franks Tract, DCC and TDF Schedules





# Expected Milestones

- **Franks Tract Project**
  - Flooded Island FS/Recon. Studies, January 2006
  - Final Feasibility/EIR/EIS, October 2007
- **Delta Cross Channel Reoperation**
  - Recommendation Report, July 2008
- **Through-Delta Facility**
  - Recommendation Report, November 2008

# Project Planning Assumptions

- Federal funding will be available
- USBR participation will occur
- Regional Study Proposal is approved by IEP & Science for 2006 implementation